

PROJECT TITLE : QA ANALYTICAL SERVICES  
PERIOD COVERED : MARCH 25 - APRIL 28 1981  
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#### METHODS

- The following method was added to the PME-method file:
  - Sieving of ground cocoa shells (Nr 138)  
The granulometry of ground cocoa shells is determined in four fractions (<20 Mesh, < 40 Mesh, <50 Mesh, and > 50 Mesh).

#### CASING KITCHEN

- Flavour 153 (Ref. 1)  
Flavour 153 (SFC 153) was accepted as a replacement of the individual ingredients of "super juice". Therefore, new preparation procedures were established for BSD-AC, MAB-AC and MERA-AC.

#### TRIALS WITH NEW SUPPLIES OF TOBACCO INGREDIENTS

- Diethylene glycol (SIEGFRIED S.A., Zofingen / yellow sheet 5962, 160 kg) -(Ref. 2)  
Due to difficulties encountered with the last shipment of this product, it was decided to order a small quantity for control.  
The product corresponded to our specifications.  
SFC 201 (PHILIP MORRIS, Richmond/yellow sheet 5882, 400 kg)  
This product was submitted as an alternative to the MF-AC Base. Two industrial trials on MLF-CH cigarettes were organized:
  1. MF-AC solution according to the recipe applied in Richmond (with invert sugar)
  2. MF-AC solution according to the recipe applied in PME (without invert sugar)  
Smoking analyses: no significant difference between the standard and the two trials was observed.  
Subjective evaluation: a significant difference between the standard and the two trials was found. The trials were rejected.  
It is planned to repeat the trial.

#### QUALITY CONTROL OF TOBACCO INGREDIENTS

- Liquorice extract (MAC ANDREWS & FORBES, Camden (USA) / blue sheet 8036) - (Ref. 3)

Products containing more than 10 % of saccharose were put into a higher customs class. Therefore the specifications of Liquorice extract limit the permitted content of saccharose to 10.0 %.

In a spot test the laboratory of the customs offices found a value of 11.9 % in a sample of the shipment. In our laboratory an average value of 7.0 % was found with three samples. The determinations were carried out by HPLC using lactose as an internal standard.

- MFSBC - Powder (PMG Berlin) - (Ref. 4)

4 drums of the last shipment were mismarked: instead of "MFSBC-Powder" the drums were labelled "MFSB Base" together with the code number of "MF(S) Powder Base". The contents were identified as being "MFSBC-Powder".

#### TRIALS WITH NEW SUPPLIES OF FILTER COMPONENTS

- Methoxy polyethylene glycol 650 (HODAG CHEMICAL CORP., Skokie/USA/ yellow sheet 5963, 2 x 200 g)

Methoxy polyethylene glycol having an average molecular weight of 650 could replace the mixture of methoxy polyethylene glycol 550 and 750.

Two samples were submitted:

The first sample was polymerized to obtain an average molecular weight of 650. In the laboratory an average molecular weight of 679 was found. The water-content corresponded to the specifications of Methoxy polyethylene glycol 750. The second sample was a physical blend of Methoxy polyethylene glycol 750 and 550. An average molecular weight of 659 was found. The water-content corresponded to the specifications of Methoxy polyethylene glycol 750.

The purchasing department will clarify the commercial aspect before an industrial trial with one or both products is organized.

#### QUALITY CONTROL OF FILTER COMPONENTS

- Methoxy polyethylene glycol 550 (ex BP, Intertaba) - (Ref. 5)

In some of the drums of a regular shipment a fairly pronounced yellow coloration of the product was observed. As regards chemical analyses, the product was within specifications.

An industrial trial on MAE - cigarettes was organized.

Smoking analyses: no significant difference between the standard and trial was observed.

Subjective evaluation: no significant difference was found. The trial was accepted.

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- Methoxy polyethylene glycol 750 (BP, Zürich / blue sheet 8311/ 5000 kg)

As regards chemical analyses the product was within specifications. However, in 7 drums (out of the total shipment of 24) a high amount of solid particules on the surface, sometimes with a yellow coloration of the product, was found. The drums in question were returned to the supplier.

- Triacetin (Project URQUELL) - (Ref. 6)

The sample was largely out of specifications as regards water-content and colour (yellow coloration instead of colourless).

#### TRIALS WITH NEW SUPPLIES OF GLUES

- Glue for tipping paper (ex WIKOLIN/PMG Munich) - (Ref. 7)

Based on the first promising results, a second industrial trial with 6 different types of glues on MLF-IT cigarettes was organized.

Machineability: no significant difference to the standard was seen.

Smoking analyses: no significant difference between the standard and the trials was observed.

Subjective evaluation: The trial with type "5008/A33" was considered acceptable. All the other trials were rejected. In order to check the influence of type "5008/A33" on a "sensitive" cigarette a trial on PMS-FR will be organized.

- Glue for tear tape (FULLER GmbH, Lüneburg (BRD), "LUNAFLEX S 5 W"/ yellow sheet 5931, 500 g)

The glue did not give better results on the machine than the standard glue.

Concluded on 23.02.81


#### SERVICES FOR OTHER GROUPS

- Analyses for foil mentholating  
Menthol on inner foil (25 samples)
- Analyses for product development  
Triacetin in filters (4 samples)
- Analyses for MONIQUE  
SiO<sub>2</sub> in dust (3 samples)

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## REFERENCES

1. Monthly report Widmer-A (August 1980)  
Letter from Schwarb-A to the Casing Kitchen (April 3 1981)
2. Monthly report Widmer-A (February 1981)
3. Letter from Widmer-A to Jeannottat-R (March 17 1981)
4. Monthly report Widmer-A (February 1981)  
Letter from Lutzig-B.W. to Widmer-A (April 6 1981)
5. Letter from Widmer-A to Schembri-A (March 3, 1981)
6. Letter from Widmer-A to Michaca M (April 21 1981)
7. Monthly report Widmer-A (December 1980)  
Letter from Widmer-A to Lutzig-B.W. (March 20 1981)



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